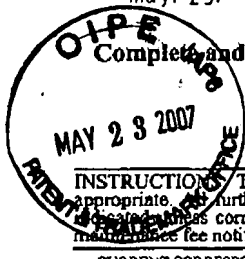


May. 23. 2007 1:26PM

## PART B - FEE(S) TRANSMITTAL

No. 0451 P. 2



Complete and send this form, together with applicable fee(s), to: **Mail Stop ISSUE FEE**  
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**INSTRUCTIONS:** This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

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7590

05/16/2007

Robert S Klemz Jr  
 Vesuvius  
 4604 Campbells Run Road  
 Pittsburgh, PA 15205

05/24/2007 HDENESS2 00000045 220281 10509501

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 02 FC:1504 300.00 DA

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 I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

Thomas C. Dunford	(Depositor's name)
<i>Thomas C. Dunford</i>	(Signature)
MAY 23, 2007	(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/509,501	09/28/2004	Eric Hanse	1396 US/PCT	4020

TITLE OF INVENTION: THERMAL SHOCK RESISTANT CASTING ELEMENT AND MANUFACTURING PROCESS THEREOF

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1400	\$300	\$0	\$1700	08/16/2007

EXAMINER	ART UNIT	CLASS-SUBCLASS
LDN, ING HOUR	1725	164-488000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

- ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.  
☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.

2. For printing on the patent front page, list

- (1) the names of up to 3 registered patent attorneys or agents OR, alternatively,  
 (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

1. Thomas J. Clinton

2. Donald M. Satina

3. \_\_\_\_\_

## 3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

VESUVIUS CRUCIBLE COMPANY

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

103 FOULK ROAD, SUITE 32  
WILMINGTON, DE 19803

Please check the appropriate assignee category or categories (will not be printed on the patent): ☐ Individual ☒ Corporation or other private group entity ☐ Government

## 4a. The following fee(s) are submitted:

- ☒ Issue Fee  
☐ Publication Fee (No small entity discount permitted)  
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## 4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above)

- ☐ A check is enclosed.  
☐ Payment by credit card. Form PTO-2038 is attached.  
☒ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number 220281 (enclose an extra copy of this form).

## 5. Change in Entity Status (from status indicated above)

- ☐ a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27. ☐ b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).

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Authorized Signature

*Thomas J. Clinton*

Date

MAY 23, 2007

Typed or printed name

Thomas J. Clinton

Registration No.

40,561

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No. 0451 P. 1



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Total Pages: 3  
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**FAX : (571)-273-2885**

**ART UNIT : 1725**

**EXAMINER : LIN, ING HOUR**

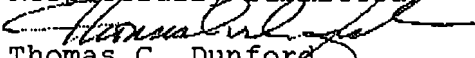
**FROM : Thomas Dunford - Vesuvius CR - Legal Dept.**

**DATE : May 23, 2007**

**SUBJECT : ISSUE FEE TRANSMITTAL  
US APPLICATION NO.: 10/509,501  
FILING DATE: 09/28/2004  
ATTORNEY DOCKET NO. : 1396 US**

A completed **PART B FEE(S) TRANSMITTAL Form (PTOL 85)** and an extra copy of this completed form are transmitted herewith for the above subject US Patent Application.

Respectfully Submitted,

  
Thomas C. Dunford  
Vesuvius Crucible Legal Department

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